Add the following new claims:

36. The human fertility hormone of claim 1, said expression vector being autonomously replicating.

1337. The cell of claim 5. said first expression vector being autonomously replicating.

 \mathcal{J} 38. The cell of claim \mathcal{J} , said second expression vector being autonomously replicating.

- 39. The cell of claim 16 wherein each said expression vector is autonomously replicating.
- 40. The expression vector of claim 22 or 23, said expression vector being autonomously replicating.

A1. The method of claim 34, wherein each said expression vector is autonomously replicating.

REMARKS

The specification and claims have been amended to recite the ATCC Accession numbers of deposited microorganisms, cells, and expression vectors. Alpha SVHVPl and beta SVVPl have the same number, 2075, because a mixture of the two viruses was deposited. pRF398 in Cl27 cells and pRF375 in Cl27 cells have the same number, CRL 8401, for the same reason. Attached hereto are the ATCC forms showing deposit according to the terms of the Budapest Treaty as of the filing date of the above-captioned application.

009

Claims 1, 5, 7, 16, 22, 23, and 34 have been amended to delete the limitation "autonomously replicating". New dependent claims 36-41 recite that limitation.

Early favorable action is requested.

Respectfully submitted,

Paul T. Clark

Attorney for Applicants Fish & Richardson 28 State Street Boston, MA 02109 (617) 523-7340

Date: 7 - 24.84



12301 Parklawn Drive, Rockville, Maryland 20852, U.S.A.

BUDAPEST TREATY ON THE INTERNATIONAL RECOGNITION OF THE DEPOSIT OF MICROORGANISMS FOR THE PURPOSES OF PATENT PROCEDURE

INTERNATIONAL FORM

VIABILITY STATEMENT ISSUED PURSUANT TO RULE 10.2

TO: Integrated Genetics, Inc. ADDRESS: 51 New York Avenue Framingham, Massachusetts 01701 Attention: Nancy Hsiung	DEPOSITOR: ADDRESS:
Identification of the Microorganism(s)	ATCC Accession Designation(s)
Transformed mouse fibroblast cell, CMαβlh	CRL 8401
Date of the Deposit or of the Transfer*	
The viability of the microorganism(s) identi On that date, the said microorganism(s) wa	fied above was tested on November 14, 1983 .s(were):
xx_ viable	no longer viable
	TEST HAS BEEN PERFORMED (complete only if
INTERNATIONAL DEPOSITORY AUTHORITY:	Signature of person having the power to represent the ATCC:
American Type Culture Collection 12301 Parklawn Drive Rockville, Maryland 20852, U.S.A.	(Mrs.) Bobbie A. Brandon, Head Professional Services Department
	Date: November 22, 1983
*In cases referred to in Rule 10.2(a)(ii) and test.	d (iii), refer to the most recent viability cc: Paul Clark, Esq. Fish and Richardson
Form BP/9 (one page only)	28 State Street Boston, Massachusetts 02109

1



12301 Parklawn Drive, Rockville, Maryland 20852, U.S.A.

BUDAPEST TREATY ON THE INTERNATIONAL RECOGNITION OF THE DEPOSIT OF MICROORGANISMS FOR THE PURPOSES OF PATENT PROCEDURE

INTERNATIONAL FORM

VIABILITY STATEMENT ISSUED PURSUANT TO RULE 10.2

TO:	Integrated Genetics, Inc.	DEPOSITOR:
	51 New York Avenue	ADDRESS:
7,001,12001	Framingham, Massachusetts 01701	·
	Attention: Nancy Hsiung	
Identificat	ion of the Microorganism(s)	ATCC Accession Designation(s)
Transform	ned mouse fibroblast cell, CSMαβ6C	CRL 8400
Date of th	ne Deposit or of the Transfer*	November 1, 1983
The viabil On that d	ity of the microorganism(s) identif ate, the said microorganism(s) was	ied above was tested on <u>November 21, 1983</u> (were):
XX	viable	no longer viable
test was i	negative):	EST HAS BEEN PERFORMED (complete only if
INTERNAT	TIONAL DEPOSITORY AUTHORITY:	Signature of person having the power to represent the ATCC:
American	Type Culture Collection	
	klawn Drive	0110 n 0.
	, Maryland 20852, U.S.A.	Bolelie A. Brandon
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, , ,	(Mrs.) Bobbie A. Brandon, Head
		Professional Services Department
		Date: November 22, 1983
		And a second winklish
*In cases	referred to in Rule 10.2(a)(ii) and	(iii), refer to the most recent viability
test.		cc: Paul Clark, Esq. Fish and Richardson
Form BP	9/9 (one page only)	28 State Street

Boston, Massachusetts 02109



AMERICAN TYPE CULTURE COLLECTION 12301 Parklawn Drive, Rockville, Maryland 20852, U.S.A.

BUDAPEST TREATY ON THE INTERNATIONAL RECOGNITION OF THE DEPOSIT OF MICROORGANISMS FOR THE PURPOSES OF PATENT PROCEDURE

INTERNATIONAL FORM

T0:

Integrated Genetics, Inc.

51 New York Avenue

Framingham, Massachusetts 01701

Attention: Vemuri B. Reddy

Name and Address of Depositor or His/Her Attorney

RECEIPT IN THE CASE OF AN ORIGINAL DEPOSIT issued pursuant to Rule 7.3 by the INTERNATIONAL DEPOSITARY AUTHORITY

Identification reference given by the DEPOSITOR:

Accession number given by the ATCC:

Escherichia coli RF322 containing p	plasmid pCL28XhoLHBPV	PAUL T. CLARK
The microorganism(s) identified above was(were) accompanied by:	
a scientific description		NOV 1 4 1983
xx a proposed taxonomic designation:	Escherichia coli	
The microorganism(s) identified above was(sby this International Depositary Authority	ve. c) / coci / cc o	mber 2, 1983
Name of International Depositary Authority	to represent the	
American Type Culture Collection	Culture Collection	n.
Address: 12301 Parklawn Drive	- Bolelie A.	Phoudon
Rockville, Md. 20852 U.S.A.	(Mrs.) Bobbie A.	Brandon
	Date: Nover	mber 7, 1983

cc: VPaul T. Clark, Esq. Fish and Richardson 28 State Street Boston, Massachusetts 02109



AMERICAN TYPE CULTURE COLLECTION 12301 Parklawn Drive, Rockville, Maryland 20852, U.S.A.

BUDAPEST TREATY ON THE INTERNATIONAL RECOGNITION OF THE DEPOSIT OF MICROORGANISMS FOR THE PURPOSES OF PATENT PROCEDURE

INTERNATIONAL FORM

TO:

Integrated Genetics, Inc.

51 New York Avenue

Framingham, Massachusetts 01701

Attention: Vemuri B. Reddy

Name and Address of Depositor or His/Her Attorney

RECEIPT IN THE CASE OF AN ORIGINAL DEPOSIT issued pursuant to Rule 7.3 by the INTERNATIONAL DEPOSITARY AUTHORITY

Identification reference given by the DEPOSITOR:

Virus αSVHVP1, βSVVP1

Virus aLHSVVPl

Accession number given by the ATCC:

VR 2075

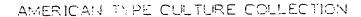
VR 2076

The	<pre>microorganism(s)</pre>	identified	above	was(were)	accompanied	by:
-----	-----------------------------	------------	-------	-----------	-------------	-----

Virus αβSVVPI	VR 2077
The microorganism(s) identified above was(were)	accompanied by:
a scientific description	
a proposed taxonomic designation:	
.:	
The microorganism(s) identified above was(were) by this International Depositary Authority and	has been accepted.
Name of International Depositary Authority	Signature of person having the power to represent the American Type
American Type Culture Collection	Culture Collection.
Address: 12301 Parklawn Drive	Bolelie A. Brandon
Rockville, Md. 20852 U.S.A.	(Mrs.) Bobbie A. Brandon
	Date: November 29, 1983
cc: Paul Clark, Esq.	

Fish and Richardson 28 State Street Boston, Massachusetts 02109





12301 Parklawn Drive, Rockville, Maryland 20852, U.S.A.

BUDAPEST TREATY ON THE INTERNATIONAL RECOGNITION OF THE DEPOSIT OF MICROORGANISMS FOR THE PURPOSES OF PATENT PROCEDURE

INTERNATIONAL FORM

VIABILITY STATEMENT ISSUED PURSUANT TO RULE 10.2

7.001.12001	Integrated Genetics, Inc. 51 New York Avenue Framingham, Massachusetts 01701	DEPOSITOR:ADDRESS:
	Attention: Vemuri B. Reddy	
Identificat	ion of the Microorganism(s)	ATCC Accession Designation(s)
	Virus αSVHVPl, βSVVPl	VR 2075
	Virus αLHSVVPl Virus αβSVVPl	VR 2076 VR 2077
	:	
Date of th	ne Deposit or of the Transfer*	1 1 100
On that do	viable	no longer viable
	NO (1101)111/1 WILLICE FOR A TOOLET I F	EST MAS DEED PERCHAPITAL LUMBURG UMA II
	negative):	EST HAS BEEN PERFORMED (complete only if
test was r		·
		·
INTERNAT American 12301 Parl	negative):	Signature of person having the power to
INTERNAT American 12301 Parl	TIONAL DEPOSITORY AUTHORITY: Type Culture Collection klawn Drive	Signature of person having the power to represent the ATCC: Oollie A. Don L. (Mrs.) Bobbie A. Brandon, Head



AMERICAN TYPE CULTURE COLLECTION 12301 Parklawn Drive, Rockville, Maryland 20852, U.S.A.

BUDAPEST TREATY ON THE INTERNATIONAL RECOGNITION OF THE DEPOSIT OF MICROORGANISMS FOR THE PURPOSES OF PATENT PROCEDURE

INTERNATIONAL FORM

TO:

Integrated Genetics, Inc.

51 New York Avenue

Framingham, Massachusetts 01701

Attention: Nancy Hsiung

RECEIPT IN THE CASE OF AN ORIGINAL DEPOSIT issued pursuant to Rule 7.3 by the INTERNATIONAL DEPOSITARY AUTHORITY

Name and Address of Depositor or His/Her Attorney

Identification reference given by the DEPOSITOR:

Accession number given by the ATCC:

DEPOSITOR.	
Transformed mouse fibroblast cell, CMHla	CRL 8399
The microorganism(s) identified above was(were)	accompanied by:
a scientific description	
a proposed taxonomic designation:	
by this International Depositary Authority and	nas been accepted.
Name of International Depositary Authority	Signature of person having the power to represent the American Type
American Type Culture Collection	Culture Collection.
Address: 12301 Parklawn Drive	Rolling A. Prandan
Rockville, Md. 20852 U.S.A.	(Mrs.) Bobbie A. Brandon
	Date: November 22, 1983
cc: Paul Clark, Esq.	

cc: Paul Clark, Esq.
Fish and Richardson
28 State Street
Boston, Massachusetts 02109



AMERICAN TYPE CULTURE COLLECTION 12301 Parklawn Drive, Rockville, Maryland 20852, U.S.A.

BUDAPEST TREATY ON THE INTERNATIONAL RECOGNITION OF THE DEPOSIT OF MICROORGANISMS FOR THE PURPOSES OF PATENT PROCEDURE

INTERNATIONAL FORM

T0:

Integrated Genetics, Inc.

51 New York Avenue

Framingham, Massachusetts 01701

Attention: Nancy Hsiung

RECEIPT IN THE CASE OF AN ORIGINAL DEPOSIT issued pursuant to Rule 7.3 by the INTERNATIONAL DEPOSITARY AUTHORITY

Name and Address of Depositor or His/Her Attorney

Identification reference given by the DEPOSITOR:

Accession number given by the ATCC:

Transformed mouse fibroblast cell, CSMαβ6C Transformed mouse fibroblast cell, CMaßlh

The microorganism(s) identified above was(were) accompanied by:

CRL 8400 CRL 8401

	a scientific description a proposed taxonomic designation:	· 			
The m	microorganism(s) identified above was(were) receive his International Depositary Authority and has been	d on accept	November 1,	1983	

Name of International Depositary Authority	Signature of person having the powe to represent the American Type
American Type Culture Collection	Culture Collection.
Address: 12301 Parklawn Drive	Bellie A. Prondon
Rockville, Md. 20852 U.S.A.	(Mrs.) Robbie A. Brandon
	Date: November 22, 1983

cc: Paul Clark, Esq. Fish and Richardson 28 State Street Boston, Massachusetts 02109



12301 Parklawn Drive, Rockville, Maryland 20852, U.S.A.

BUDAPEST TREATY ON THE INTERNATIONAL RECOGNITION OF THE DEPOSIT OF MICROORGANISMS FOR THE PURPOSES OF PATENT PROCEDURE

INTERNATIONAL FORM

VIABILITY STATEMENT ISSUED PURSUANT TO RULE 10.2

TO: Integrated Genetics, Inc. ADDRESS: 51 New York Avenue Framingham, Massachusetts 01701	DEPOSITOR: ADDRESS:
Attention: Nancy Hsiung	
Identification of the Microorganism(s)	ATCC Accession Designation(s)
Transformed mouse fibroblast cell, CMHla	CRL 8399
Date of the Deposit or of the Transfer*	October 27, 1983
The viability of the microorganism(s) identiform that date, the said microorganism(s) was	fied above was tested on <u>November 21, 1983</u> .s(were):
XX_ viable	no longer viable
CONDITIONS UNDER WHICH THE VIABILITY Test was negative):	EST HAS BEEN PERFORMED (complete only if
INTERNATIONAL DEPOSITORY AUTHORITY:	Signature of person having the power to represent the ATCC:
American Type Culture Collection 12301 Parklawn Drive Rockville, Maryland 20852, U.S.A.	(Mrs.) Bobbie A. Brandon, Head Professional Services Department
	Date: November 22, 1983
*In cases referred to in Rule 10.2(a)(ii) and test.	(iii), refer to the most recent viability cc: Paul Clark, Esq.

Boston, Massachusetts 02109



12301 Parklawn Drive, Rockville, Maryland 20852, U.S.A.

BUDAPEST TREATY ON THE INTERNATIONAL RECOGNITION OF THE DEPOSIT OF MICROORGANISMS FOR THE PURPOSES OF PATENT PROCEDURE

INTERNATIONAL FORM

VIABILITY STATEMENT ISSUED PURSUANT TO RULE 10.2

TO: ADDRESS:	Integrated Genetics, Inc. 51 New York Avenue Framingham, Massachusetts 01701 Attention: Vemuri B. Reddy	DEPOSITOR: ADDRESS:
	ion of the Microorganism(s)	ATCC Accession Designation(s)
	a coli RF322 containing plasmid pCI	.28XhoLHBPV 39475
Date of th	e Deposit or of the Transfer*	November 2, 1983
The viabili On that da	ty of the microorganism(s) identi te, the said microorganism(s) wa	
CONDITION test was n	egative):	no longer viable TEST HAS BEEN PERFORMED (complete only if
INTERNATI American 12301 Park	IONAL DEPOSITORY AUTHORITY: Type Culture Collection lawn Drive Maryland 20852, U.S.A.	Signature of person having the power to represent the ATCC: Obline A. Brandon, Head Professional Services Department
		Date: November 7, 1983
*In caces	referred to in Rule IN 2(a)(ii) and	(iii), refer to the most recent viability

*In cases referred to in Rule 10.2(a)(ii) and (iii), refer to the most recent viability test.

Fish and Richardson

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